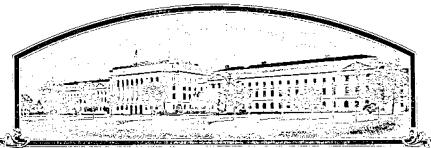
ricultural Marketing Service



7400081

THE UNITED STATES OF ANDERSON

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Agripro, Incorporated

Telligrens. There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of seventeen—years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or using it in producing a hybrid or different variety therefrom, to the extent provided by the Plant Variety Protection Act (84 Stat. 1542, as amended, 7 u.s.c. 2321 et seq.)

SOYBEAN

'Pontiac'

In Lestimony Marcrot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of washington this 30th day of October in the year of our Lord one thousand nine hundred and seventy-four

Earl But

Secretary of Agriculture

FORM GR - 470 (12-15-72)

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

FORM APPROVED OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.						
1. VARIETY NAME OR TEMPORARY DESIGNATION	2. KIND NAME		FOR OFFICIAL USE ONLY			
Pontiac (Ex 5117)	Soybean PV NUMBER			400081		
3. GENUS AND SPECIES NAME	4. FAMILY NAME (Botanical) FILING DATE			1 A.M.		
Glycine Max	Legumino	osae	FEE RECEIVED	BALANCE DUE		
•	5. DATE OF DETERM	MINATION	1 2 50 00	\$		
	1973			\$ = = = = = = = = = = = = = = = = = = =		
6. NAME OF APPLICANT(S)	7. ADDRESS (Street & Code)	nd No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA CODE AND NUMBER		
AGRIPRO, INC.		103 South 16th Street Ames, IA 50010				
9. IF THE NAMED APPLICANT IS NOT A F ORGANIZATION: (Corporation, partnershi		10. STATE OF INCOF	RPORATION	11. DATE OF INCOR- PORATION		
Corporation		Iowa		1973		
12. Name and mailing address of appl	licant representative(s		in this application a	1		
13A. Exhibit A, Origin and Br 13B. Exhibit B, Botanical De 13C. Exhibit C, Objective Dec 13D. Exhibit D, Data Indicati	scription of the Variet	ty	,	,		
🔀 13E. Exhibit E, Statement of	·		·			
14A. Does the applicant(s) specify the (See Section 83(a), (If "Yes,")	nat seed of this variety answer 14B and 14C b	y be sold by variety elow.)	v name only as a clas ☐YES X NO	ss of certified seed?		
148. Does the applicant(s) specify the limited as to number of generations.	hat this variety be		er seed?	rations of production		
The applicant declares that a viable ance of a certificate, and will be rep						
The undersigned applicant(s) of the uniform, and stable as required in Plant Variety Protection Act.		•		_		
Applicant is informed that false re	presentation herein ca	an jeopardize protec	ction and result in pe	enalties.		
March 20, 1974	<u> </u>	B. C	Moraghan IGNATURE FAPPLICA	NT)		
(DATE)			IGNATURE OF APPLICA	ANT)		

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons 'clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF THE VARIETY

Cross: CORSOY x BEESON

Original cross was made in the winter of 1967-68 by Improved Variety Research between Corsoy and Beeson. Single seed descent was used to advance the generations. F1 and F4 generations were grown in Iowa, F2 and F3 in a winter nursery. Single plant selections were made in the F4 generation and the line was preliminary yield tested in 1971. The pure line was yield tested extensively in 1972 and 1973. Several hundred single plant selections were grown in 1973, and only those rows conforming to a standard type were bulk harvested. The variety is stable for characteristics of plant type and maturity.

EXHIBIT B

BOTANICAL DESCRIPTION OF THE VARIETY

PONTIAC (Ex 5117) is a northern, indeterminate soybean variety of maturity Group III. It matures about four days later than Beeson and it is adapted to areas of the Midwest in which Beeson and Wayne are adapted.

The flowers are purple and the pubescence gray. The seed and hilum color is yellow. The seed luster is dull. Seed size is medium.

Pontiac has better seed quality and better emergence than Beeson. Beeson has an emergence score of 5 while Pontiac has a score of 1.

OBJECTIVE DESCRIPTION OF VARIETY (SOYBEAN)

STRUCTIONS: Dearworks	SUTBEANI			
ANL OF APPLICANTIS			TAL USE CHLY	
AGRIPRO, INC.	-1	PVPO NUMBER		
DONESS (Street and No., or R.F.D. No.: City, State, and ZIP Code		137 - VARIETY NAME OR TEMPORARY		
103 South 16th Street		DESIGNATION	I SMC YOAR I	
Ames, IA 50010		Pontiac (Ex 5117)	
lace the appropriate number that describes the varieta	l character of this varie	<u> </u>		
ED SHAPE:				
1 = SPHERICAL 2 = SPHERICAL 3 = ELC	ONGATE 4 = OTHER	R (Specify)		
	7-VINE/		a how if an inter-	
ED COAT COLOR:	•	ISHADE (Place a zero i. dark):	in box if neither light nor	
1 = YELLOW 2 = GREEN 3 = BROWN	N 4 = BLACK	I = LIGHT	2 = DARK	
5 = OTHER (Specify)	SEED SIZE:			
		E0 100		
1 = DULL 2 = SHINY	1 8 GRAMS PI	ER 100 SEEDS		
LUM COLOR:		dark):	in box if neither light nor	
1=BUFF 2=YELLOW 3=BROWN 4=G	GRAY 5 = IMPERFECT	' 	r 2 = dark	
6 = BLACK 7 = OTHER (Specify)	BLACK	1 1 1 ELIGHT	DAKK	
TYLEDON COLOR:	LEAFLET SIZE (See	e Reverse):		
-			3=1 +000	
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			—	
AFLET SHAPE:				
AFLET SHAPE: 1 = OVATE 2 = OBLONG 3 = LANCEOLATE	4 = ELLIPTICAL 5	= OTHER (Specify)		
	4 = ELLIPTICAL 5	= OTHER (Specify)	<u> </u>	
1 = OVATE 2 = OBLONG 3 = LANCEOLATE	·	FLOWER COLOR:	2 = PURPLE	
1 = OVATE 2 = OBLONG 3 = LANCEOLATE AF COLOR (See Reverse): 2 = MEDIUM GREEN 3 = 1	4 = ELLIPTICAL 5_			
1 = OVATE 2 = OBLONG 3 = LANCEOLATE AF COLOR (See Reverse):	·	FLOWER COLOR:		
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INSTRUCTIONS

General: The following publications may be used as a reference aid for completing this A. G. Norman, 1963, The Soybean, Academic Press, New York - London

Color

<u>Varieties</u>

Leaf Color: 1=Light Green 2=Medium Green

The following varieties may be used as a guide to identify the relative Leaf Size: size leaves.

<u>Varieties</u> <u>Size</u>

1. Small

2. Medium

3.=Large

Plant Type: The following varieties may be used as a guide to identify the plant type.

<u>Varieties</u>

1.-Slender

2.=Intermediate

3.=Bushy

EXHIBIT D

DATA INDICATIVE OF NOVELTY

To the breeder's knowledge, the soybean variety "Pontiac" (Ex 5117) most closely resembled the variety Beeson. Pontiac is similar to Beeson in that it has purple flower color and gray pubescence, but it can be distinguished from Beeson by:

- (1) Pontiac has yellow hilum (Imperfect black for Beeson).
- (2) Pontiac has better emergence than Beeson.
- (3) Pontiac is four days later than Beeson.
- (4) Pontiac has been higher yielding than Beeson. (See attached yield data.)

1971 PRELIMINARY YIELD TEST - IVR (Average of Two Locations)

PONTIAL BX 5117	49.7
Amsoy	44.1
Beeson	45.2
Wavne	46.4

1972 YIELD TESTS - IVR (Three Locations)

()	Adel #1	<u> Adel #2</u>	Creston	Ave <u>Yield</u>	Mat.	Ldq.
Pontine Ex. 5117 Beeson Wayne Calland Clark 63 Cutler	51.7	41.5	55.8	49.7	9-19	1.5
	46.6	41.0	46.8	44.8	9-16	1.8
	46.3	41.2	47.7	45.1	9-23	2.3
	45.2	45.6	50.9	47.2	9-22	2.3
	38.6	42.3	47.3	42.7	9-28	3.3
	48.2	44.7	48.8	47.2	10-2	2.0

1973 YIELD TESTS - AGRIPRO, INC. (Two Locations)

	Ave						
	Marshalltown	Clarence	Yield	Mat.	Ldg.	Hgt.	
PONTIAC							
Ex 5117	52.2	49.7	51.0	9-24	3.0	37	
Marshall	47.7	43.1	45.4	9-21	4.0	36	
Beeson	51.5	48.4	50.0	9-20	2.8	36	
Wayne	52.3	48.8	50.6	9-25'	3.8	41	
LSD	6.6	2.9			· ·		

1973 IOWA STATE SOYBEAN YIELD TEST (Average of three Southern Iowa Locations)

PONTIAC	Yield	Mat.	<u>Lđg.</u>	<u>Hgt.</u>	Emerg. Score	Seed Size
Ex-5117 Beeson	43.2 41.1	9-26 9-22	3.6 3.4	45 44	1 5	2600 2300
Wayne LSD	42.5 2.4	9-27	3.7	50	T	2500